

PRODUCT SPECIFICATIONS

Date: 2011-12-02

PRODUCT NAME	:	Anti-h Alpha Subunit 6601 SPR-5
PRODUCT SPECIFICITY	:	Antibody recognize the alpha chains of human FSH, CG, LH and TSH
PRODUCT CODE	:	100066
PRODUCT BUFFER	:	37 mM citrate, 125 mM phosphate, pH 6.0, 0.1 % NaN ₃ as a preservative
SHELF LIFE AND STORAGE	:	36 months from manufacturing at 2-8 °C
ANALYTE DESCRIPTION	:	The alpha subunits of LH, FSH, TSH, and hCG are identical, and contain 92 amino acids in human but 96 amino acids in almost all other vertebrate species.

PARAMETERS TESTED FROM EACH LOT

PRODUCT APPEARANCE	:	Clear liquid
PRODUCT CONCENTRATION	:	5.0 mg/ml (+/- 10 %)
PRODUCT ACTIVITY	:	80-120 % compared to reference in an IFMA-test
IEF-RANGE	:	6.4 - 7.7
PURITY	:	≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS	:	IgG _{2a}
ASSOCIATION CONSTANT	:	8.9 x 10 ⁵
DISSOCIATION CONSTANT	:	3.8 x 10 ⁻⁵
AFFINITY CONSTANT	:	KA = 2.4 x 10 ⁹ 1/M; KD = 4.2 x 10 ⁻¹¹ M (= 0.04 nM)
DETERMINATION METHOD	:	SPR analysis (ProteOn XPR36)
ANTIGEN	:	hCG (Scripps CO714 lot.2430801)
CROSS-REACTIVITIES	:	FSH α 174 % (Scripps Laboratories Cat No F0714 Lot 734811) FSH β 5 % (Scripps Laboratories Cat No F0814 Lot 110811) LH 148 % (Scripps Laboratories Cat No L0814 Lot 125711) TSH 38 % (Scripps Laboratories Cat No T0114 Lot 181711)

EPITOPE : N/D

EPITOPE GROUP : -

Two antibodies binding to the same, or closely located epitopes, belong to the same group and hence cannot be used as a pair in a sandwich assay. Epitope group numbering does not give any detailed information where the epitope is located.

PAIR RECOMMENDATIONS	SOLID	LABEL
	6602	6601
	5006, 5008, 5016	6601

Please note that pair recommendations are based on results obtained in our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations should be taken only as a directive.

PRODUCT STABILITY	TEMPERATURE, DAYS	RESULT
Please note that the shelf life given on page one is based on real time stability testing at +2-8 °C in the product buffer.	-70 °C, 21 days	N/D
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+30 °C, 21 days	OK
	+35 °C, 21 days	OK
	+45 °C, 7 days	OK

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. The maximum duration of the test is 21 days, except for the +45 °C only 7 days.

pH, 14 DAYS, +4 °C	RESULT
5.0	N/D
6.0	N/D
7.0	N/D
8.0	N/D

Stability testing is performed to see whether pH affects the antigen binding, charge or composition of the antibody during 14 days at +4 °C.

MISCELLANEOUS : This clone works well in lateral flow applications. LH cross-reactivity with 5006 and 5008 may be reduced by using 5304 as a scavenger antibody.

REFERENCES : -

Legal disclaimer

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